FIG. 1

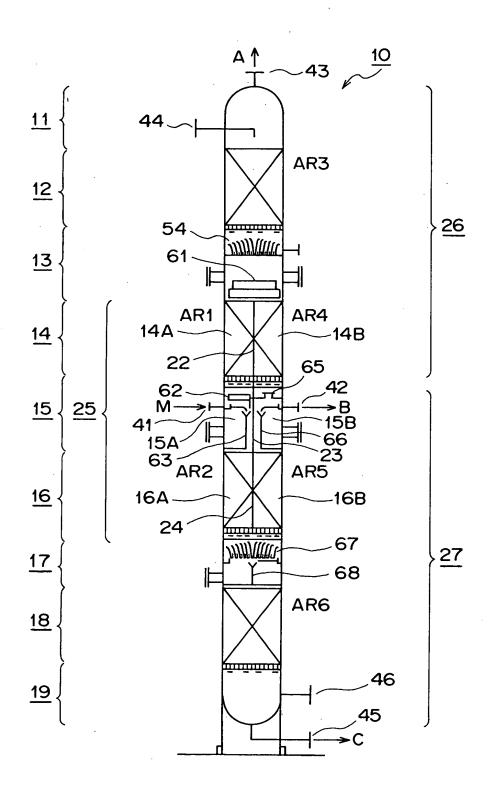


FIG. 2

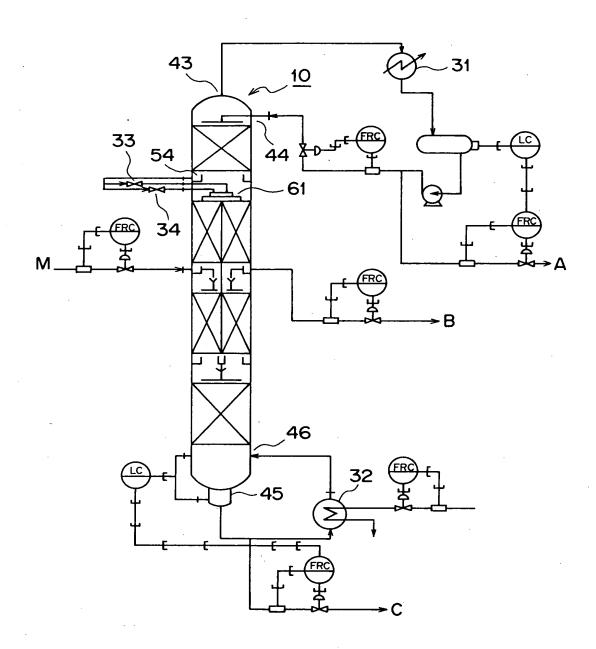


FIG. 3

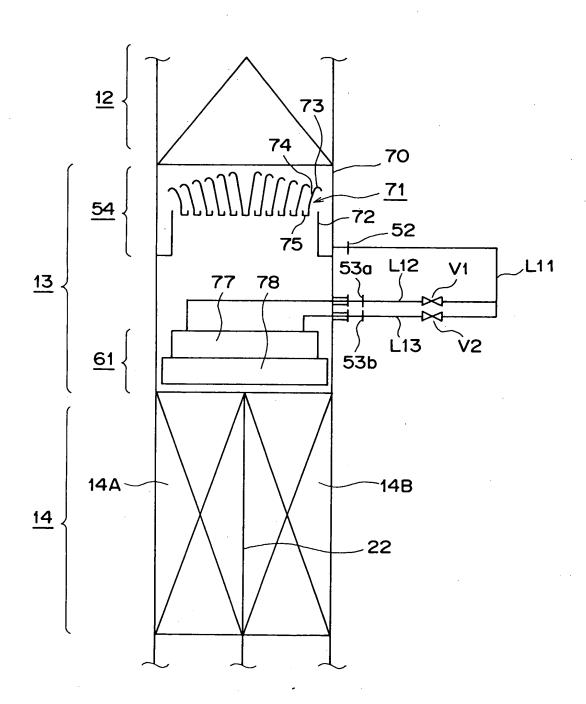
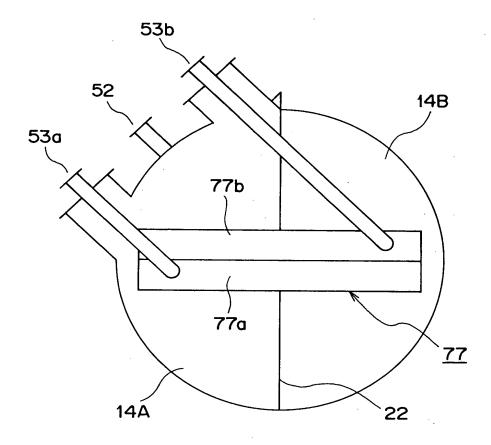


FIG. 4



 ϵ

FIG. 5

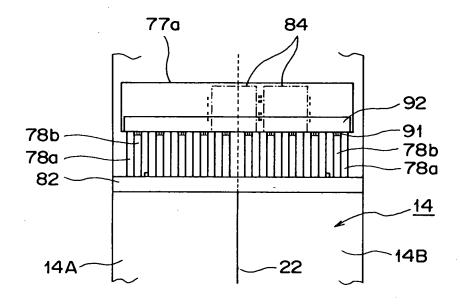


FIG. 6

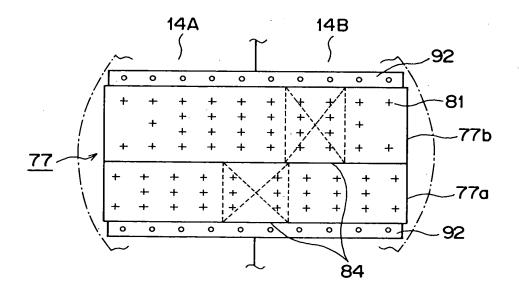


FIG. 7

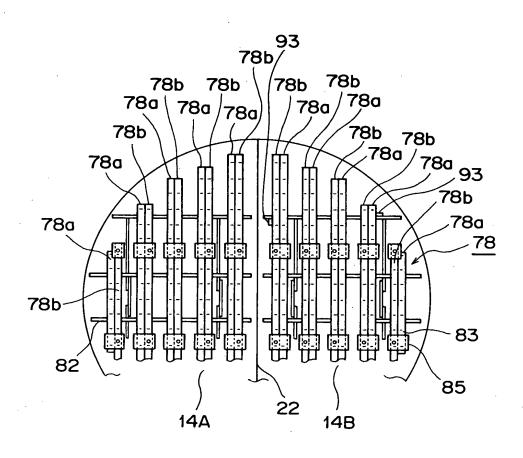


FIG. 8

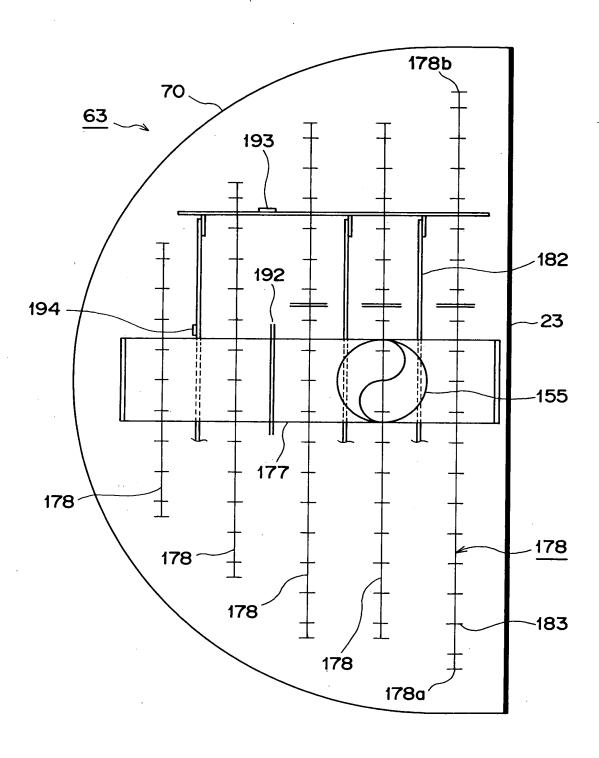


FIG. 9

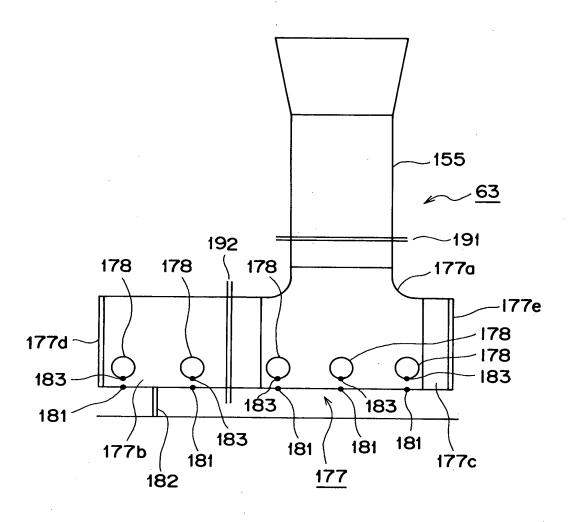


FIG. 10

 $(m^3/m^2 hr)$

				DESCENDING-LIQUID FLOW RATE					
				5	10	15	20	25	30
	0		5	0.144	0.144	0.144	0.144	0.144	0.144
8	1		0	0.502	0.502	0.502	0.502	0.505	0.518
FACTOR	1		5	1.041	1.041	1.135	1.284	1.504	1,831
Ŀ	2	•	0	1.743	1.857	2,454	4.119	6.051	8.926
	2	•	5	2.632	3,233	5.233	10,919	28,306	53,064

FIG. 11

SECTION / CHAMBER	FILLER	DESCENDING-LIQUID FLOW RATE	ASCENDING-VAPOR FLOW RATE	F FACTOR
12	Α	7500	7600	1,18
14A	Δ	4500	7600	1.28
16A	Α	9200	7700	1.2
14B	Α	10500	7500	1.17
16B	Α	6100	7500	1.17
18	В	7600	7600	1.18

FIG. 12

FILLER	fi	ΔΡί	NTSMi
Δ	1.17~1.28	0.5~0.6	5.5~5.6
В	1.18	0.5	3.6

FIG. 13

SECTION/ CHAMBER	FILLER	DESCENDING-LIQUID FLOW RATE	ASCENDING-VAPOR FLOW RATE	F FACTOR
12	С	4400	4600	2.87
14A	٥	3400	4700	2.25
16A	D	10600	7800	3.39
14B	D	7800	6900	3.27
16B	D	4700	7100	3.03
18	С	6700	6700	2.73

FIG. 14

FILLER	fi	ΔΡί	NTSMi
С	2.73	4.5	2.2
С	2.87	4.5	2.2
D	2.25	0.8	2.2
D	2.73	0.8	2.2
. D	3.03	3.0	2.0
D	3.27	4.0	2.0
D	3.39	4.5	2.0

FIG. 15

SECTION / CHAMBER	FILLER	DESCENDING-LIQUID FLOW RATE	ASCENDING-VAPOR FLOW RATE	F FACTOR
12	С	4000	4300	2.7
14A	D	4100	_~ 4600	2.2
16A	D	10000	7000	3.2
14B	Α	8000	7000	1.1
16 _. B	Α	6000	7000	1.1
18	В	7500	7500	1 . 18

FIG. 16

FILLER	fi	ΔPi	NTSMi
С	2.7	2	2.6
D	2.2~3.2	0.7~3.5	2.2~2.0
Α	1.1	0.45	6
В	1.18	0.5	3.6

FIG. 17

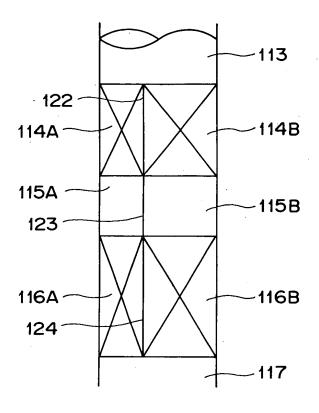


FIG. 18

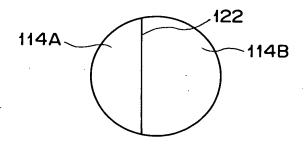


FIG. 19

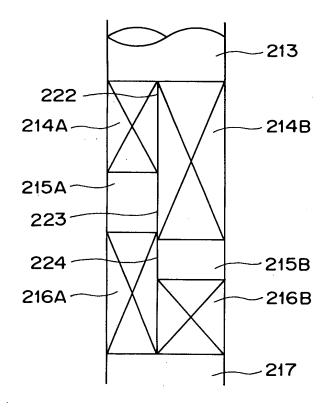


FIG. 20

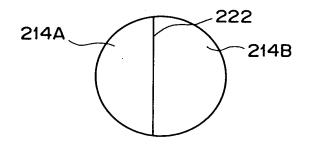


FIG. 21

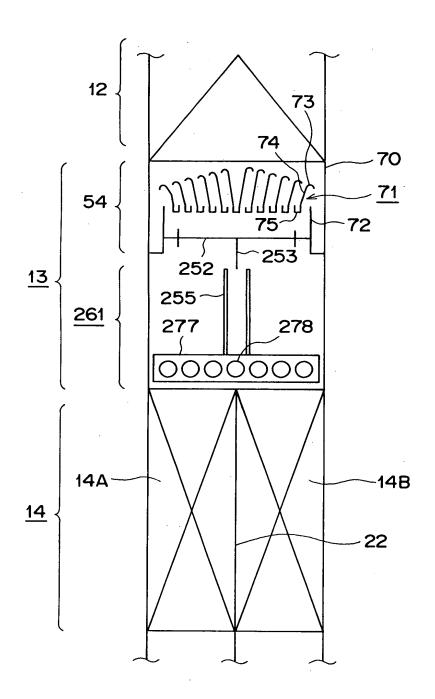


FIG. 22

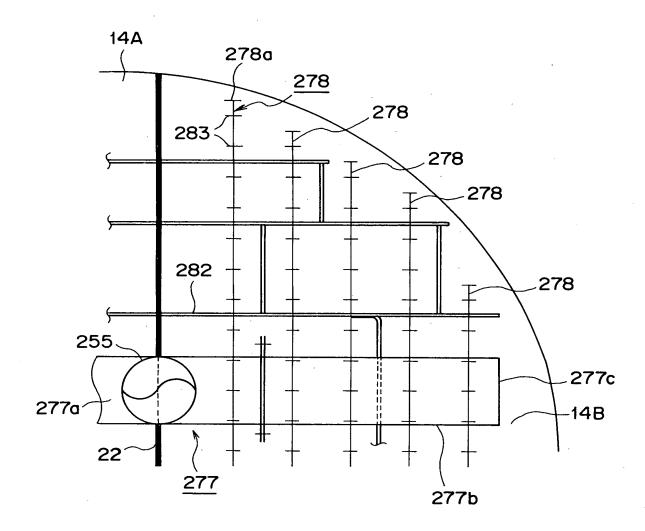


FIG. 23

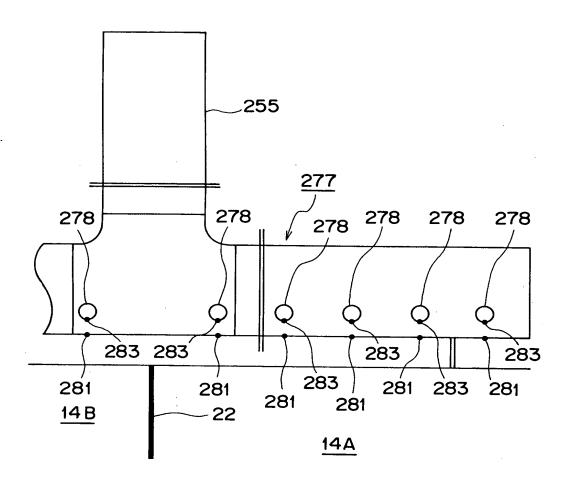


FIG. 24

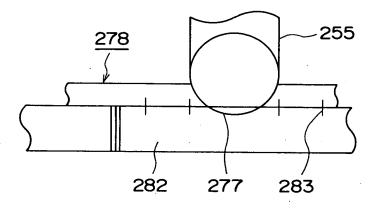


FIG. 25

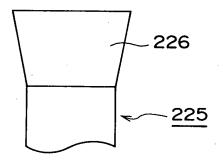


FIG. 26

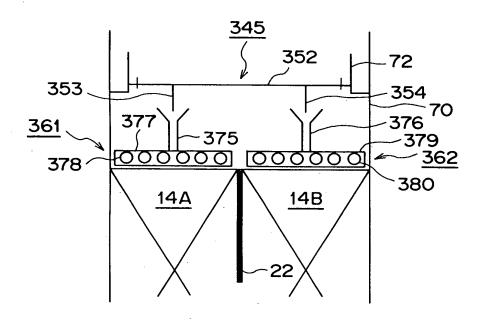


FIG. 27

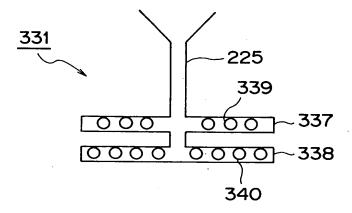


FIG. 28

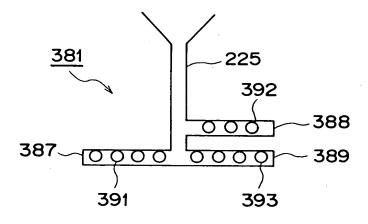


FIG. 29

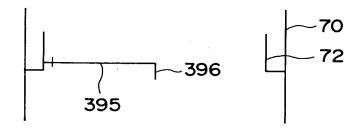


FIG. 30

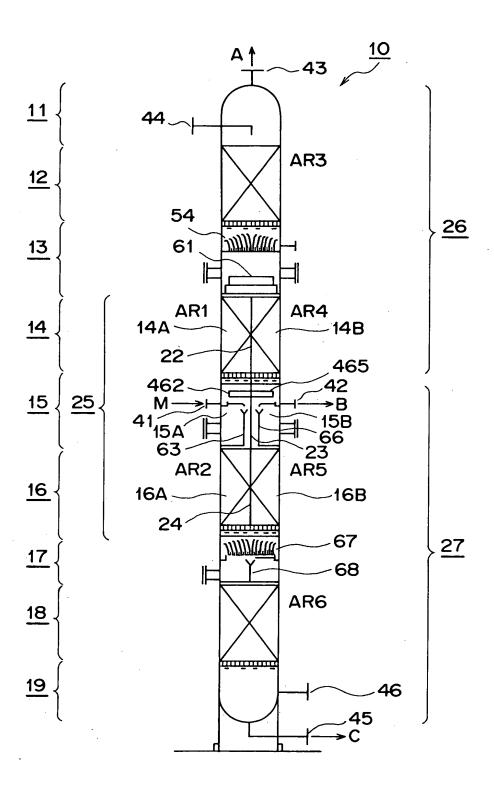


FIG. 31

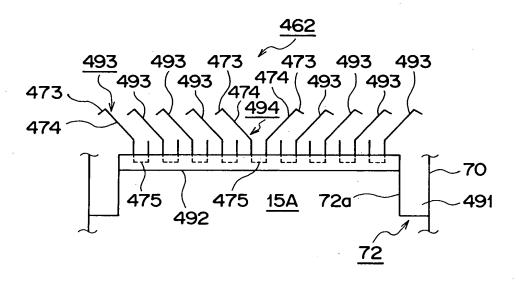


FIG. 32

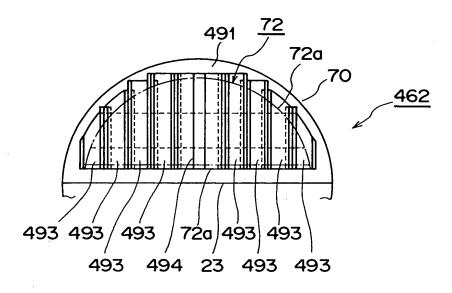


FIG. 33

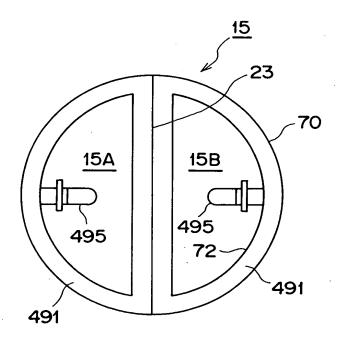


FIG. 34

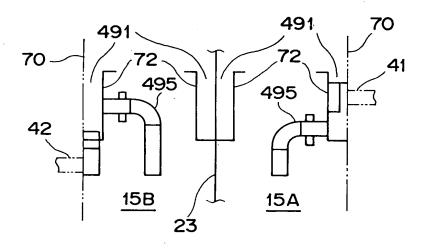


FIG. 35

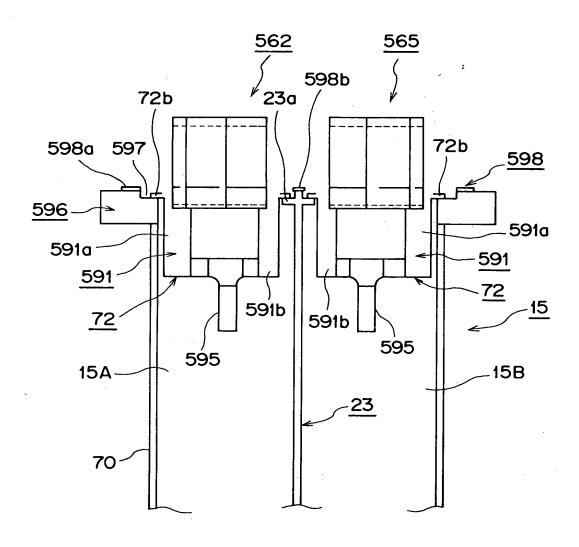


FIG. 36

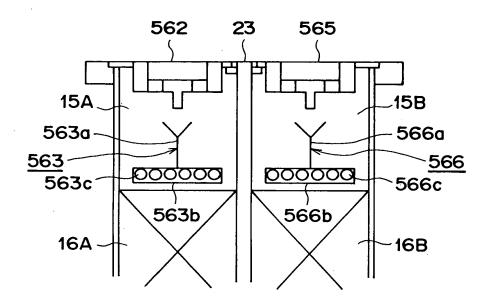


FIG. 37

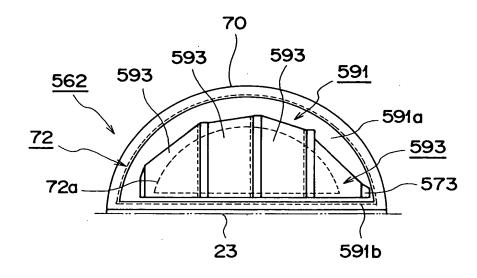


FIG. 38

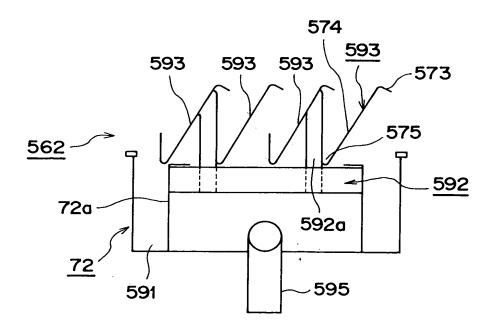


FIG. 39

